Sketch OL3 – Bill of Material

Sketch OL3: Typical process stack (solid structure) dual red-white lighting system.

These suggestions represent our opinion and interpretation of FAA obstruction lighting practices. The owner is responsible for the selection of lighting required to comply with FAA AC 70/7460-1 latest revision. If there exists an FAA site survey Letter of Determination, Point Lighting can provide an interpretation and suggest a bill of material.

This is an example of a Class I, Division 2 listed dual beacon system for a solid structure. The lighting is flashing red at night and flashing white during daylight. Mid-level steady-burning red lights may be required at half height, but in process plants there are usually so many lower structures and/or 24 hour ambient lighting, that the mid-level lights are waived. The specifier can also decide to use a white only system. In both cases, this type lighting eliminates the need to paint the structure. The red lights at night also remove most local complaints caused by white lights at night.

Note 1: The PFB beacons are mounted outside the platform deck with the railing gated for access. The junction box is mounted to be accessible from the platform. Beacons are positioned at equal angles around the stack. If the structure diameter or diagonal is less than 20-ft, three (3) lights may be used at top level.

Note 2: Each beacon flashhead has an associated wall-mounted power supply.

Note 3: The required data cable is used as one (1) run from the POC system controller to the first PFB beacon power supply (PS) and then to each beacon PS in turn ("daisy-chain") that terminates at the last beacon. The beacons are numbered in sequence and must be installed on the data cable in that sequence. This allows the POC system controller to identify and monitor each beacon and synchronize the flashing. See the PFB data file for the data cable specification.

Description Quantity Product Download Catalog

FAA L-864/865 Red-White LED Flashing Beacon 4 PFB-37002-RW-1-EX-F4F5-K OL213PFBv2

Includes 3m of interconnect cable

Includes Power Supply (PS) Class I, Division 2

Steel Mounting Bracket with beacon hardware 4 PL11217

For welding in place; bolt-on brackets are available

FAA Photocontrol Class I, Division 2 1 PPC-40702-1-EX OL420PPCEX

Lighting System Controller Class I, Division 2 1 POC-68503-94-1-EX-LA OL302POC

Multiple mode alarm monitoring

Includes power failure alarm

Includes system status alarm

Includes lightning arrestor

PPC override switch on door

Enclosure N4X, Class I, Division 2

Includes four (4) bottom 1-inch NPT threaded entries